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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.	
09/498,396	02/04/2000	Saeed Anooshfar	3994(CFP1317US)	8772	
5514 FITZPATRICE	7590 06/28/200 C CELLA HARPER &	•	EXA	EXAMINER	
30 ROCKEFELLER PLAZA			SHINGLES	SHINGLES, KRISTIE D	
NEW YORK,	NY 10112		ART UNIT	PAPER NUMBER	
			2141		
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Please find below and/or attached an Office communication concerning this application or proceeding.

The time period for reply, if any, is set in the attached communication.

	Application No.	Applicant(s)	
	09/498,396	ANOOSHFAR, SAEED	
Office Action Summary	Examiner	Art Unit	
	Kristie D. Shingles	2141	
The MAILING DATE of this communication ap Period for Reply	pears on the cover sheet w	th the correspondence address	
	VIC OFF TO EVENE AM	ONTHE OR THERTY (20) DAYO	
A SHORTENED STATUTORY PERIOD FOR REPL WHICHEVER IS LONGER, FROM THE MAILING D - Extensions of time may be available under the provisions of 37 CFR 1. after SIX (6) MONTHS from the mailing date of this communication. - If NO period for reply is specified above, the maximum statutory period - Failure to reply within the set or extended period for reply will, by statut Any reply received by the Office later than three months after the mailin earned patent term adjustment. See 37 CFR 1.704(b).	OATE OF THIS COMMUNION (136(a). In no event, however, may a rewill apply and will expire SIX (6) MON e, cause the application to become AB	CATION. Peply be timely filed THS from the mailing date of this communication. ANDONED (35 U.S.C. § 133).	
Status		•	
1) Responsive to communication(s) filed on 10 A	April 2007.		
	s action is non-final.		
3) Since this application is in condition for allowa	ance except for formal matt	ers, prosecution as to the merits is	
closed in accordance with the practice under	Ex parte Quayle, 1935 C.D	. 11, 453 O.G. 213.	
Disposition of Claims			
4)⊠ Claim(s) <u>1-25</u> is/are pending in the application	1.		
4a) Of the above claim(s) is/are withdra	wn from consideration.	•	
5) Claim(s) is/are allowed.			
6)⊠ Claim(s) <u>1-25</u> is/are rejected.			
7) Claim(s) is/are objected to.			
8) Claim(s) are subject to restriction and/o	or election requirement.		
Application Papers			
9) The specification is objected to by the Examine	er.		
10)☐ The drawing(s) filed on is/are: a)☐ acc	cepted or b) objected to	by the Examiner.	
Applicant may not request that any objection to the	drawing(s) be held in abeyar	ce. See 37 CFR 1.85(a).	
Replacement drawing sheet(s) including the correct	·		
11) ☐ The oath or declaration is objected to by the E	xaminer. Note the attached	Office Action or form PTO-152.	
Priority under 35 U.S.C. § 119			
12) Acknowledgment is made of a claim for foreign	n priority under 35 U.S.C. §	119(a)-(d) or (f).	
a) ☐ All b) ☐ Some * c) ☐ None of:			
1. Certified copies of the priority documen			
2. Certified copies of the priority documen		· · · · · · · · · · · · · · · · · · ·	
3. Copies of the certified copies of the price	•	received in this National Stage	
application from the International Burea * See the attached detailed Office action for a list	, , , , , , , , , , , , , , , , , , , ,	received	
dec the attached detailed Office action for a list	t of the certified copies flot	COCIVEU.	
Attachment(s)			
1) Notice of References Cited (PTO-892)	4) Interview S	ummary (PTO-413)	
2) DNotice of Draftsperson's Patent Drawing Review (PTO-948)	Paper No(s)/Mail Date formal Patent Application	
Information Disclosure Statement(s) (PTO/SB/08) Paper No(s)/Mail Date	6) Other:	• •	

DETAILED ACTION

Per Applicant's Request for Continued Examination Claims 1, 7, 21, 23 and 24 have been amended.

Claims 1-25 are pending.

Continued Examination Under 37 CFR 1.114

I. A request for continued examination under 37 CFR 1.114, including the fee set forth in 37 CFR 1.17(e), was filed in this application after final rejection. Since this application is eligible for continued examination under 37 CFR 1.114, and the fee set forth in 37 CFR 1.17(e) has been timely paid, the finality of the previous Office action has been withdrawn pursuant to 37 CFR 1.114. Applicant's submission filed on 4/10/2007 has been entered.

Response to Arguments

II. Applicant's arguments with respect to claims 1, 7, 21, 23 and 24 have been considered but are most in view of the new ground(s) of rejection.

CLAIM REJECTIONS - 35 USC § 103

- III. The following is a quotation of 35 U.S.C. 103(a) which forms the basis for all obviousness rejections set forth in this Office action:
 - (a) A patent may not be obtained though the invention is not identically disclosed or described as set forth in section 102 of this title, if the differences between the subject matter sought to be patented and the prior art are such that the subject matter as a whole would have been obvious at the time the invention was made to a person having ordinary skill in the art to which said subject matter pertains. Patentability shall not be negatived by the manner in which the invention was made.

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IV. Claims 1, 2, 7, 8, 10, 11 and 21-25 are rejected under 35 U.S.C. 103(a) as being unpatentable over Lo et al (US 5,911,044) in view of Davis et al (US 6,167,462).

- Regarding claim 1, Lo et al teach a computer network scanning system for fulfilling a scan order over a computer network (col. 1 lines 14-16), said system comprising:
 - at least one computer terminal adapted to input a scan setting for causing a scanner node to scan an image (col.2 lines 6-21), to cause an order entry server computer to retrieve the scanner node having a suitable scan capability corresponding to the input scan setting from among a plurality of scanner nodes (col.3 lines 45-66, col.9 lines 1-24, col.12 lines 20-58, col.14 line 8-col.15 line 9) and to receive input for creating the scan order for scanning an image at the retrieved scanner node based on the retrieved result, and sending the scan order to an order entry server, the scan order including at least one network address to which the scanned image is to be sent, the address being input by a requestor and the input scan setting (col.2 lines 57-65, col.8 lines 3-24 and 61-67, col.17 lines 56-67);
 - at least one order entry server computer configured to retrieve the scanner node having the suitable scan capability from among the plurality of scanner nodes based on an instruction by the computer terminal and to create and distribute scan orders in accordance with the scan capability of the retrieved scanner node, each order entry server computer being coupled to said at least one computer terminal through the computer network (col. 13 lines 12-34, col. 14 line 8-66, col. 16 lines 41-64, col. 19 lines 8-22); and
 - at least one scanner node, each scanner node being coupled to said at least one computer terminal and each order entry server computer through the computer network, each scanner node being configured to select a scan order from a plurality of scan orders received from at least one of the order entry servers through the computer network, and each scanner node being configured to generate a scanned image based on the selected scan order and to send the scanned image to the network address included in the selected scan order (col. 15 line 10-col.16 line 64, col.19 lines 8-44).

Lo et al teach a scanner receiving scanner jobs from a user (col. 16 lines 41-51) thus it would be obvious that a scanner node selects a scan order from a plurality of scanner servers. Nonetheless, Davis et al teach a user selecting a scanner with specific properties and the scanner selecting a specific scan order allowing a user to reserve the scanner for exclusive use for a particular amount of time and indicating to other users when the scanner is no longer reserved (col.2 lines 46-61, col.3 line 49-col.4 line 52, col.4 line 53-col.5 line 54).

Therefore it would have been obvious to one of ordinary skill in the art at the time the invention was made to combine the teachings of *Lo et al* with *Davis et al* by having the client specify the desired scanning functions/capabilities for a particular scan order and then implementing a selection process that matches the user's desired parameters with a suitable scanning device capable of selecting and fulfilling a user's scanning request job—doing so allows the user to specific the scanner parameters and scanner important for the user's scanning job and furthermore allows the scanner to select a scan job based on the order received and a priority of a user.

- b. Claims 7, 21 and 23-25 contain limitations that are substantially similar to claim
 1 are therefore rejected under the same basis.
- c. Regarding claim 2, Lo et al with Davis et al teach the computer network scanning system of claim 1, Lo et al further teach the system further comprising a central database coupled via the computer network to each scanner node and to each terminal, the central database adapted to store and retrieve scan orders (col.15 lines 27-30).
- d. Regarding claim 8, Lo et al with Davis et al teach the computer network scanning method of claim 7, Lo et al further teach wherein the step of creating the scan order comprises the substeps of accessing from an order entry server computer a user interface module which permits input of the scan order from the terminal (col.26 lines 28-29; Davis et al: col.2 lines 45-61); inputting from the terminal a desired set of scanner settings and parameters through the user interface module (page 3 paragraphs 0049-0055, 0058-0063; Davis et al: col.2 lines 45-

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61, col.3 lines 49-59); reconciling the inputted scanner settings and parameters with a capability profile associated with each scanner node designated in the scan order; and converting the reconciled scanner settings and parameters into the scan order (col.12 lines 12-18, 25-27 and 32-35; Davis et al: col.2 lines 45-61, col.3 lines 49-59) using a script writer module associated with the order entry server computer (col. 13 lines 50-60).

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- Regarding claim 10, Lo et al with Davis et al teach the method of claim 8, Lo et al further teach wherein the step of reconciling comprises the substeps of: (a) retrieving from a scanner directory service module the capability profile for each of the scanner nodes in the designated scan order (col. 10 line 39, col. 19 lines 7-22); (b) comparing the retrieved capability profiles of the scanner nodes with the scan order (col. 12 lines 63-65 and col. 13 lines 20-21); and (c) when the scan order is inconsistent with a retrieved capability profile of a scanner node: (I) providing notification of the inconsistency through the user interface (col. 12 lines 12-18, 26-28 and 32-35); and (II) executing one step selected from the group comprising (A) the selection of an alternative scanner node and repeating steps (a) through (c) above, and (B) the acceptance of the scanner node with the associated capability profile (col.12 lines 63-65 and col.13 lines 20-21).
- f. Regarding claim 22, Lo et al with Davis et al teach the method of claim 21, Lo et al further teach wherein the step of updating the central database comprises deleting the scan order from the central database (col. 17 lines 12-15).
- V. Claims 4, 5, 11, 18, and 19 are rejected under 35 U.S.C. 103(a) as being unpatentable over Lo et al (US 5,911,044) in view of Davis et al (US 6,167,462) and further in view of Cunningham (US 6,208,436).

Regarding claim 4, Lo et al with Davis et al, teach the computer network g. scanning system of claim 1, Lo et al further teach wherein each order entry server computer comprises: a user interface module coupled to the computer network and adapted to receive scanner settings and parameters for the scan order from the terminal(s) (col.26 lines 28-29; Davis et al: col.2 lines 46-61, col.3 line 49-col.4 line 52); a scanner directory service module coupled to the user interface module and configured to provide a capability profile for each scanner node on the computer network (col.14 lines 40-45); a scan order reconciler module coupled to the scanner directory service module and to the user interface module and adapted to receive scanner settings and parameters for the scan order inputted through the user interface module, the scan order reconciler module configured to compare a capability profile for a scanner node with the inputted scanner settings and parameters for consistency and to provide notification through the user interface module of any inconsistencies (col.12 lines 12-18, 25-27 and 32-35; Davis et al: col.2 lines 46-61, col.3 line 49-col.4 line 52); a script writer module coupled to and adapted to receive input from the scan order reconciler module and configured to create the scan order by translating scanner settings and parameters inputted from the terminal through the user interface module into a script that can be parsed by the scanner nodes (col.13 lines 55-56; Davis et al: col.5 lines 3-65). Yet, Lo et al and Davis et al fail to teach an email server module. However, Cunningham teaches an email server module adapted to receive the scan order from the script writer module and configured to send electronic mail messages to any address designated in the scan order and to send the scan order to any scanner node on the computer network (abstract, col.3 lines 1-8, col.6 lines 9-13 and 25-34, col.7 lines 14-20 and 29-40, col.9 lines 58-61). Therefore, it would have been obvious to one having ordinary skill in the art at the time the

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invention was mad to further modify the network image scanning systems of Lo et al and Davis

et al with Cunningham by having an email server module in order to transmit scanning orders

and messages between the terminal, server computer, and scanner.

h. Regarding claim 11, Lo et al with Davis et al teach the method of claim 7, as

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applied above; yet fail to teach using electronic mail. However, Cunningham further teaches

wherein the step of submitting uses electronic mail (abstract, col. 3 lines 1-8, col. 6 lines 9-13 and

25-34, col.7 lines 14-20 and 29-40, col.9 lines 58-61). Therefore, it would have been obvious to

one having ordinary skill in the art at the time the invention was mad to further modify the

network image scanning systems of Lo et al and Davis by using electronic mail because this is an

efficient and obvious method of network communication.

i. Claims 18 and 19 are substantially similar to claim 4 and are therefore rejected

under the same basis.

j. Regarding claim 5, Lo et al and Davis et al with Cunningham the computer

network scanning system of claim 4, Lo et al further teach wherein the scanner directory service

module is a module selected from the group comprising (A) a database containing a capability

profile for each scanner node on the computer network, the database populated by entering a

capability profile for each scanner node before using the database (col. 14 lines 54-55 and col. 15

lines 27-30), and (B) a directory of capability profiles for the scanner nodes on the computer

network generated on demand by a lookup/discovery software module (col. 14 lines 40-45).

VI. <u>Claims 3 and 9</u> are rejected under 35 U.S.C. 103(a) as being unpatentable over *Lo et al* (US 5,911,044) in view of *Davis et al* (US 6,167,462) in further view of *Kumpf et al*

(US 6,289,371).

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- k. Regarding claim 3, Lo et al with Davis et al teach the computer network scanning system of claim 1, as applied above. Yet, Lo et al in view of Davis et al fail to explicitly teach each terminal has associated therewith browser software for inputting scan orders. However, Kumpf et al teach each terminal has associated therewith browser software for inputting scan orders (col.2 lines 30-32). Therefore it would have been obvious to one of ordinary skill in the art at the time that the invention was made to further modify the network image scanning system of Lo et al and Davis et al with Kumpf et al by having each terminal has associated therewith browser software for inputting scan orders because the software is needed to instruct the hardware on how to process the scan orders.
- l. Regarding claim 9, Lo et al with Davis et al teach the method of claim 8 as applied above, yet Lo et al in view of Davis et al fail to explicitly teach accessing comprises using Web browser software to retrieve a Web page, the Web page adapted to receive input concerning scanner settings and parameters. However, Kumpf et al teach wherein the step of accessing comprises using Web browser software to retrieve a Web page, the Web page adapted to receive input concerning scanner settings and parameters (col.2 lines 30-32 and 41). Therefore it would have been obvious to one of ordinary skill in the art at the time that the invention was made to further modify the network image scanning system Lo et al and Davis et al with Kumpf et al wherein accessing comprises using Web browser software to retrieve a Web page, the Web page adapted to receive input concerning scanner settings and parameters because a web page is an efficient manner of communication.

VII. Claims 6, 15, 16, 17 and 20 are rejected under 35 U.S.C. 103(a) as being unpatentable over Lo et al (US 5,911,044) in view of Davis et al (US 6,167,462) in further view of Cunningham (US 6,208,436) and Cukor et al (US 5,168,444).

Regarding claim 6, Lo et al in view of Davis et al teach the computer network scanning system of claim 1, as applied above. Lo et al further teach the system wherein each scanner node comprises: a user interface module (col.26 lines 28-29); a script interpreter module for parsing the scan order in order to obtain scanner settings and parameters contained therein, the script interpreter module coupled to the user interface module (col. 13 lines 55-56); a scanner driver module adapted to receive an output of the script interpreter module and to set settings and parameters of the scanner node based on the output (Davis et al: col.2 lines 46-61); a scanner module coupled to the scanner driver module and adapted to receive scanner settings and parameters from the scanner driver module and configured to produce a scanned image (col. 12 lines 12-18 and 25-27); and an email server module coupled to the computer network, to the script interpreter module, and to the scanner module, the email server module configured to receive the scan order sent over the computer network, to send an electronic mail message containing the scanned image to any recipients indicated in the scan order, and to send an electronic mail message without the scanned image to any parties indicated in the scan order notifying such parties of the completion of the scan order (Cunningham: page 1 paragraphs 0001 and 0002; page 2 paragraphs 0026 and 0028). Lo et al in view of Davis et al and Cunningham fail to teach a scan order queue updater and sorter module. However, Cukor et al teach of a scan order queue updater and sorter module coupled to the user interface module and to the script interpreter module, the scan order queue updater and sorter module configured to update and sort a queue of a scanner node (col.11 lines 53-54). Therefore, it would have been

obvious to one having ordinary skill in the art at the time the invention was made to further modify the network image scanning system of *Lo et al*, *Davis et al* and *Cunningham* with *Cukor et al* by having a scan order queue updater and sorter module because this keeps the scan orders organized for processing by the scanner node.

- n. Claim 20 is substantially similar to claim 6 and is therefore rejected under the same basis.
- Regarding claim 15, Lo et al in view of Davis et al teach the method of claim 7 0. as applied above, Lo et al further teach wherein the step of processing comprises the substeps of: selecting one of the scan orders; obtaining an item to be scanned as specified in the scan order (col.3 lines 25-27 and col.16 lines 10-12); setting the scanner node to desired settings and parameters as specified in the scan order (col.12 lines 50-51; Davis et al: col.2 lines 46-61); placing the item to be scanned in the scanner node; initiating scanning; sending a scanned image as specified in the scan order using an email server module associated with the scanner node (Cunningham: page 1 paragraphs 0001 and 0002; page 2 paragraphs 0026 and 0028); and sending notification using the email server module associated with the scanner node of completion of the scan order to any parties indicated in the scan order (Cunningham: page 2) paragraph 0028). Lo et al in view of Davis et al and Cunningham fail to teach of a queue of scan orders. However, Cukor et al teach of selecting one of the scan orders in the queue of the scanner node (col. 11 lines 53-54). Therefore, it would have been obvious to one having ordinary skill in the art at the time the invention was made to further modify the network image scanning system of Lo et al, Davis et al and Cunningham with Cukor et al by having a scan order queue because this keeps the scan orders organized for processing by the scanner node.

- Regarding claim 17, Lo et al in view of Davis et al teach the method of claim 7, p. as applied above, Lo et al further teach wherein the step of updating the scanner node(s) on the computer network comprises the substeps of requesting count reduction of the scan order when count is greater than one, and requesting removal of the scan order from the scanner node when count equals one (col. 22 lines 21-25); determining whether the scan order has been sent to any other scanner node(s) in the computer network; and when the scan order has been sent to other scanner node(s) on the computer network, sending an electronic mail message using the email server module from the scanner node which processed the scan order to each other scanner node (Cunningham: page 1 paragraph 0001 and page 2 paragraph 0025), requesting (A) count reduction of the scan order when count is greater than one, and (B) removal of the scan order from each other scanner node when count equals one (col.22 lines 21-25). Lo et al in view of Davis et al and Cunningham fail to teach a queue of scan orders. However, Cukor et al teach of the removal of the scan order from the queue of the scanner node (col. 11 lines 53-54). Therefore, it would have been obvious to one having ordinary skill in the art at the time the invention was made to further modify the network image scanning system of Lo et al in view of Davis et al and Cunningham with Cukor et al by having a scan order queue because this keeps the scan orders organized for processing by the scanner node.
- q. Regarding claim 16, Lo et al in view of Davis et al, Cunningham and Cukor et al teach the method of claim 15, Lo et al further teach the method wherein the step of setting the scanner node comprises the substeps of parsing the scan order using the script interpreter module associated with the scanner node; and sending commands to a scanner driver module associated

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with the scanner node based upon information obtained from the parsed scan order (col. 13 lines 47-51 and 55-56).

VIII. Claims 12, 13 and 14 are rejected under 35 U.S.C. 103(a) as being unpatentable over Lo et al (US 5,911,044) and Davis et al (US 6,167,462) in further view of Cukor et al (US 5,168,444) and Kumpf et al (US 6,223,223).

- Regarding claim 12, Lo et al in view of Davis et al teach the method of claim 7 as applied above, Lo et al further teach wherein the step of processing comprises the substeps of invoking a scanning mode at the scanner node where the scan order is received (col.1 line 22); parsing the scan order using a script interpreter module associated with the scanner node (col. 13 lines 55-56); updating a queue of scan orders (Cukor et al: col.11 lines 53-54) at the scanner node using a process which eliminates from the queue all scan orders that are count-expired (col.22 lines 21-25 and Fig. 14B and 14C); prioritizing all scan orders in the updated queue according to a predetermined algorithm; and listing the prioritized scan orders (Cukor et al: col.11 lines 54-56 of). Lo et al in view of Davis et al and Cukor et al fail to explicitly teach of time-expiration. However, Kumpf et al teach using a process, which eliminates from the queue all scan orders that are time-expired (col. 5 lines 15-16 and 57-58). Therefore, it would have been obvious to one having ordinary skill in the art at the time the invention was mad to further modify the network image scanning system of Lo et al in view of Davis et al and Cukor et al with Kumpf et al by eliminating from the queue all scan orders that are time-expired because this will help to open up space for new orders when an order cannot be scanned or if a user does not close out a scan order in the system.
- s. Regarding claim 13, Lo et al in view of Davis et al and Cukor et al with Kumpf et al teach the method of claim 12, Lo et al further teach wherein the step of updating a queue of

scanner orders at a scanner node (Cukor et al. col.11 lines 53-54) comprises the substeps of teach (a) determining whether the scan order has time-expired (Kumpf et al. col.5 lines 15-16 and 57-58); (b) when time-expired, removing the scan order from the queue (Kumpf et al. col.5 lines 15-16 and 57-58); (c) when not time-expired, determining whether the scan order has count expired; (d) when count-expired, removing the scan order from the queue; (e) when not count-expired, determining whether there is a count reduction notification associated with such scan order (col.22 lines 21-25); and (f) when there is a count reduction notification, reduce count order associated 5 with the scan order and repeat steps (a) through (f) above (col.22 lines 21-25 and Fig. 14B and 14C). Therefore, it would have been obvious to one having ordinary skill in the art at the time the invention was made to further modify the network image scanning system of Lo et al in view of Davis et al, Cukor et al and Kumpf et al by eliminating from the queue all scan orders that are time-expired because this will help to open up space for new orders when an order cannot be scanned or if a user does not close out a scan order in the system.

t. Regarding claim 14, Lo et al in view of Davis et al and Cukor et al with Kumpf et al teach the method of claim 12, as applied above. Cukor et al further teach the predetermined algorithm is an algorithm selected from the group comprising (A) first-in first-out, (B) alphabetical, and (C) requestor-specified priority level (col.11 lines 54-56). Therefore, it would have been obvious to one having ordinary skill in the art at the time the invention was made to further modify the network image scanning system of Lo et al in view of Davis et al, Cukor et al with Kumpf et al by having a predetermined algorithm because an algorithm is needed to select which scan order to process when multiple orders are present.

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Conclusion .

IX. The prior art made of record and not relied upon is considered pertinent to applicant's

disclosure: Olbricht (6429952), Pearson et al (6535914).

X. Any inquiry concerning this communication or earlier communications from the

examiner should be directed to Kristie D. Shingles whose telephone number is 571-272-3888.

The examiner can normally be reached on Monday 8:00am-5:30pm.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's

supervisor, Rupal Dharia can be reached on 571-272-3880. The fax phone number for the

organization where this application or proceeding is assigned is 571-273-8300.

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Kristie D Shingles Examiner

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